

Argonne to help design, build neutron source

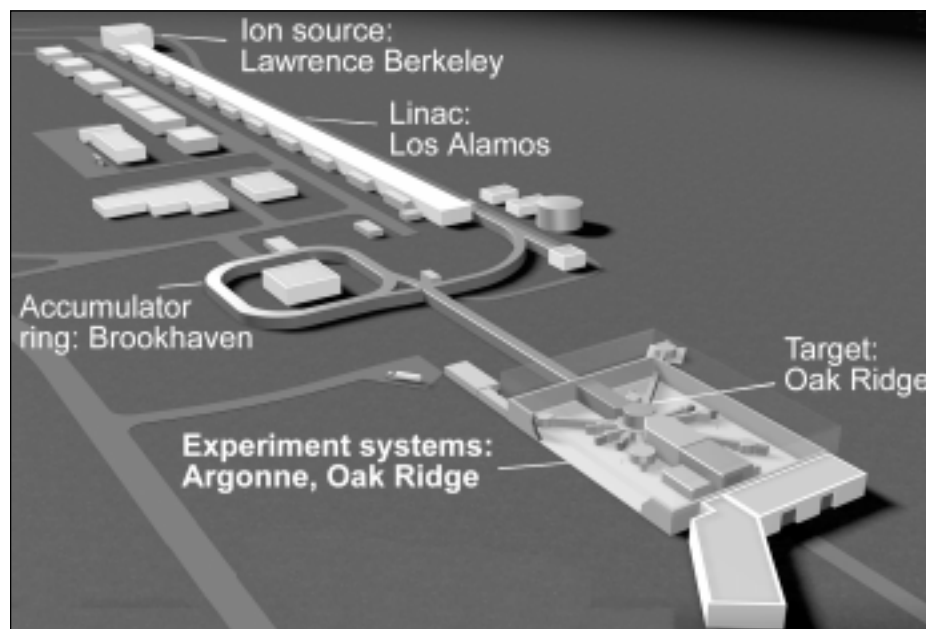
Argonne will play a key role in the design and construction of what will be the most powerful spallation source in the world for neutron scattering research, the Spallation Neutron Source (SNS) at Oak Ridge National Laboratory.

Drawing on nearly 20 years of experience with the venerable Intense Pulsed Neutron Source, Argonne will design and build the instrument suite for the SNS. Argonne joins four other national laboratories designing and building major systems for the SNS (see sidebar story on page 2).

Scientists will use the SNS to study problems in chemistry, magnetism, superconductivity, crystalline materials, structural biology, polymers, disordered materials, complex fluids and engineering (see sidebar story on page 2).

The SNS will operate much like Argonne's Intense Pulsed Neutron Source. A beam of protons will be aimed at a target, which will "spall," or emit, pulses of neutrons. IPNS delivers about 7,000 watts of beam power onto its depleted uranium target; SNS will deliver one million watts onto a liquid mercury target.

Neutrons produced in the target will be routed to 18 beamlines. Ten beamlines have been reserved for the initial set of instruments. The rest will be filled in by industrial and academic groups akin to



SPALL HALL — This artist's conception shows the design of the Spallation Neutron Source to be built at Oak Ridge National Laboratory. Several labs have responsibility for various parts of the system; Argonne will design and build the instruments surrounding the liquid mercury target. *Illustration by John Jordan and Dami Rich, Lockheed Martin.*

the collaborative access teams at Argonne's Advanced Photon Source.

Argonne's role

Argonne is primarily responsible for developing the neutron scattering instrumentation for SNS and for working closely with Oak Ridge to develop the experiment facilities.

"Argonne was chosen because of its 20 years of experience in this

game," said IPNS Director Bruce Brown. "The first spallation source for neutron scattering was built here by Jack Carpenter in the mid-seventies."

This year's appropriations of \$130 million have been approved by Congress and recently signed by the president. Argonne will receive about \$5 million.

(Continued on page 2)

Veterans to be honored on Nov. 9

The DOE-Argonne Second Annual Veterans Day Recognition Ceremony will be held at Argonne-East on Monday, Nov. 9, in the Advanced Photon Source Conference Center Auditorium (Building 402) from 1-3 p.m.

The ceremonies will recognize the contributions of all veterans past and present to the nation's peace and security, especially those employed by DOE and Argonne.

The event will include military poetry readings, a tribute to the late Ron Teunis and several guest speakers. There will be a display of military artifacts and publications.

All employees whose schedules permit are invited to attend the ceremony, which is supported by DOE and Argonne management.



Pianist Pressler to perform at Argonne-East



Pressler

Pianist Manahem Pressler will perform at Argonne-East on Sunday, Nov. 8, at 3 p.m. in the APS Conference Center Auditorium.

Pressler has been on the piano faculty of Indiana University since 1955, where he holds the position of Distinguished Professor of Music.

Pressler also co-founded the Beaux Arts Trio in 1955. The trio has become one of the world's

most enduring and widely acclaimed chamber music ensembles. The Beaux Arts recordings for Philips, which include almost all of the piano trio literature, have won many coveted honors and awards.

Recently, Pressler has performed on Carnegie Hall's Great Performers series, at Jordan Hall in Boston, at the Ravinia Festival and in Toronto, St. Louis, and Los Angeles.

The program includes Schubert's Sonata in B flat major, D. 960, and Chopin's 24 Preludes, Op. 28.

Single admissions for the concert are \$18. Tickets will be sold in the Building 213 Cafeteria lobby

Nov. 2-6 from noon to 1 p.m., and at the auditorium box office on Nov. 8 before the performance.

Upcoming Arts at Argonne concerts include:

■ Carmina Quartet, Saturday, Feb. 13, 1999.

■ Oleh Krysa, violin; Tatiana Tchekina, piano, Saturday, March 13, 1999.

Special dinner

A special dinner will be offered at the Argonne Guest House Restaurant following the concert. Dinner hours are from 5-8 p.m. Cost will be \$21.75 per person. For reservations, call 739-6000.

Lunchtime bus service returns

Limited lunch bus service at Argonne-East will resume Monday, Nov. 2, for a six-month trial period.

The bus will be available weekdays from 11:30 a.m. to 1:30 p.m., starting at Building 360 and stopping at buildings 340, 315, 401, the Argonne Guest House, 208, 200 and 205 on a continuing basis.

Ridership will be evaluated through the trial period to determine whether the service will be continued beyond April 1999.

For more information, contact PFS at ext. 2-2925.

Inside ■ Session chairs wanted for undergrad symposium ■ TIAA-CREF plans satellite conference on financial goals ■ Branch post office to get drive-up window

Employees wanted at undergrad symposium

Argonne scientific and engineering employees are needed to chair sessions at Argonne's 9th Annual Symposium for Undergraduates on Friday and Saturday, Nov. 6-7.

The symposium will take place from 1 - 5 p.m. on Friday and from 10 a.m. to noon on Saturday.

The symposium provides students with an opportunity to present papers about their research. Many of the students conducted that research at Argonne.

More than 100 abstracts have been received from students at undergraduate institutions nationwide.

Session chairs are needed in a wide variety of scientific and engineering disciplines

Most will be presented on Friday.

Chairpersons are needed for sessions in analytical chemistry, astrophysics and geophysics, biochemistry, cell biology, computer science, condensed matter physics, engineering, environmental science, general biology, general physics, genetics, inorganic and organic chemistry, mathematics,

molecular biology, nuclear and atomic physics, organometallic chemistry, physical chemistry, physics and spectroscopy.

To volunteer, or to recommend a colleague who might be available, contact Linda Washington (DEP) by Friday, Oct. 23, at ext. 2-1751, or send e-mail to Washington@woody.dep.anl.gov.

Lab's expertise tapped for neutron source

(Continued from page 1)

The total cost of the SNS will be about \$1.33 billion; \$80 million is budgeted for research, development and construction of instruments.

Oak Ridge will assign one employee for each of the 10 instruments. These leaders will work at Argonne for the next four to five years, learning the ropes of

operating an instrument at a spallation source and working with users. With this experience, they will then design instruments for SNS, and have them ready for commissioning in 2005. IPNS Senior Scientist Kent Crawford has lead responsibility for instrument design.

Concepts for the instrument suite are already being discussed.

Scientists at several Argonne divisions — including IPNS, Technology Development and Materials Science — are taking the lead in establishing working groups to determine what kinds of instruments are most needed, based on input from potential SNS users. Some 1,000 to 2,000 users from all walks of science and industry are expected to take advantage of the SNS.

Much research and development must still be done on new data acquisition techniques and beamline equipment, such as detectors and neutron "choppers."

"We really are in the thick of things," Brown said. "It's a significant challenge. We want to have a few instruments that will really push the technological envelope."

The instruments that will be needed should be determined by fiscal year 2000.

— Dave Jacqué

Four other labs involved in SNS

Four other DOE national laboratories will help design and build elements of the Spallation Neutron Source:

■ Lawrence Berkeley will build the SNS's ion source, beam formation and control hardware and low-energy beam transport and acceleration systems.

■ Los Alamos's share includes the linear accelerator, which accelerates a proton

beam to one billion electron-volts (1 GeV).

■ Brookhaven has responsibility for the accumulator ring structure, which gathers and intensifies the ion beam for delivery onto the mercury target to produce the pulsed neutron beams.

■ Oak Ridge will manage, coordinate, install, and operate the new source; build conventional facilities, and design and construct the liquid mercury target.

Neutrons reveal materials' dynamics, structure

The instruments Argonne will design and build for the SNS will help researchers investigate structural and dynamic properties of materials.

The basic setup of a neutron scattering experiment consists of a neutron source, a sample and one or more multi-detector instruments. Neutrons from the source are scattered by the sample and are collected by the detector.

As neutrons are scattered from the sample, they may undergo a change in either momentum or energy.

Measurement of these changes, together with an application of the physical theory of scattering, leads to an understanding of the structural and dynamic properties of the sample.

Neutron scattering experiments can be broken into two major categories by separating

measurements of changes in:

■ Energy — "Inelastic" neutron scattering (in which the target atoms are relatively undisturbed by the neutrons), which yields information on the dynamic properties of materials.

■ Momentum — Elastic neutron scattering (or neutron diffraction) which yields information on structural properties of materials.

Post office drive-up being built

The entrance to Argonne-East's branch post office in Building 340 will be closed temporarily as construction begins on a drive-up window.

A temporary entrance will be set up through the central mailroom.

Due to road construction of the drive-up window, access to the central mailroom is south of the regular entrance. Parking is available on the southwest corner at the intersection of Rock and Meridian Roads.

Construction may last through Nov. 2.

For more information, contact Patti Gajewski at ext. 2-3540 or page 4-1096.

ANL-E material deliveries to be made daily

Starting Monday, Nov. 2, material arriving at Argonne-East's receiving facility (Building 5) will be delivered Monday through Friday.

Currently, materials are distributed on Tuesdays and Thursdays.

Medical, flexible open enrollment begins Nov. 2

Open enrollment for Argonne's medical and flexible spending accounts will be held Nov. 2-20.

Open enrollment packages will be sent to all employees the week of Oct. 26. Employees who have not received a packet by Wednesday, Nov. 4 should call Human Resources at ext. 2-2991.

Pioneers selling calculators

The Argonne Pioneers are selling calculator-memo pad combination sets.

The large-button calculator runs on both batteries and a solar cell. Its black case, decorated with a silver Argonne deer logo, includes a memo pad and pen.

Cost is \$10. For more information, or to order, contact Evie Fagan (OPA) at ext. 2-5578.



Argonne News is published weekly for Argonne employees by the Office of Public Affairs. Send news items to Editor Dave Jacqué, Building 201, Room 2Q-02 (OPA-201). Voice: ext. 2-5582. Fax: ext. 2-5274. E-mail: info@anl.gov. Argonne-West correspondent: Gaylene Flores, Bldg. 752, ext. 3-7523. Deadline for all materials is 5 p.m. Monday. Argonne National Laboratory is operated by the University of Chicago for the U.S. Department of Energy. Vol. 51, No. 41.

ECT to offer a variety of software classes this fall

Argonne's Electronics and Computing Technologies Division will offer several classes in office computer software at Argonne-East during November.

Unless otherwise specified, classes will be held in Building 221, Room A142, are limited to eight participants and cost \$135. Full class descriptions and schedules are available online at: <http://www.anl.gov/ECT/courses/>.

For information about enrollment procedures, call Diane Cavazos (ECT) at ext. 2-7153 or send e-mail to dkcavazos@anl.gov.

■ **Beginning Unix (ECT564)** — This class consists of two three-hour sessions for a total of six hours. First session: Tuesday, Nov. 3, 9 a.m. – noon. Second session: Thursday, Nov. 5, 9 a.m. – noon. Class size is limited to 7. Cost: \$245.

■ **Microsoft Outlook 98 (ECT351)** — Tuesday, Nov. 3, 9 a.m. – noon. The class will be held in Building 223, Room S103B. Prerequisite: previous use of e-mail software.

■ **Intermediate Windows 95 (ECT305)** — Tuesday, Nov. 10, 8:30 a.m. – 11:30 a.m., or Tuesday, Nov. 17, 8:30 a.m. – 11:30 a.m. Prerequisite: Introduction to Windows 95.

■ **Word 97: Applying Formatting (ECT339)** — Tuesday, Nov. 10, 1:30 p.m. – 4:30 p.m. Prerequisites: Introduction to Windows 95 or basic Word 97 skills.

■ **Excel: Improving Worksheet Appearance 97 (ECT341)** — Wednesday, Nov. 11, 8:30 a.m. – 11:30 a.m. Prerequisite: Windows 95 and basic Excel 97 skills.

■ **Intermediate PowerPoint 97 (ECT343)** — Wednesday, Nov. 11, 1:30 p.m. – 4:30 p.m., or Wednesday,

Nov. 18, 1:30 p.m. – 4:30 p.m. Prerequisites: Windows 95 and Introduction to PowerPoint 97.

■ **Intermediate Access Version 97 (ECT333)** — Thursday, Nov. 12, 8:30 a.m. – 4:30 p.m., or Thursday, Nov. 19, 8:30 a.m. – 4:30 p.m. Cost is \$195.

■ **Visual Basic for Access 97 (ECT344)** — Friday, Nov. 13, 8:30 a.m. – 4:30 p.m. Cost is \$195. Prerequisite: Advanced Access.

■ **Word 97: Everyday Tasks Made Easier (ECT345)** — Tuesday, Nov. 17, 1:30 p.m. – Prerequisites: Introduction to Windows 95 or basic Word 97 skills.

■ **Excel 97: Working with Large Worksheets (ECT348)** — Wednesday, Nov. 18, 8:30 a.m. – 11:30 a.m. Prerequisites: Introduction to Windows 95 and basic Excel 97 skills.

Seminars

Send seminar listings to Evie Fagan, Building 201, Room 2U-09 (OPA-201). Deadline is 5 p.m. Monday. Seminar listings *only* can be sent by e-mail to efagan@anl.gov.

Argonne-West

Tuesday, Nov. 3

RPS Human Resources Seminar: **"Understanding the New Demographics"** by Marilyn Moates Kennedy, Career Strategies, Chicago, Ill. 8 a.m., Lab & Office Bldg., Conference Room 752.

Tuesday, Nov. 10

RPS Human Resources Seminar: **"Human Resources Policy & Procedures Training"** by Ryan Tew, Human Resources Specialist, Argonne-West. 8 a.m., Lab & Office Bldg., Conference Room 752.

Argonne-East

Monday, Oct. 26

Chemistry Division Monday Morning Seminar: **"Electron Interactions with Solid Surfaces: From the Astrophysical to the Atomic Scale"** by Thomas M. Orlando, Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratories, Richland, Wash. 11 a.m., Bldg. 200 Auditorium.

Physics Division Seminar: **"⁹Be + ²⁰⁸Pb: Fusion vs. Breakup at Near-Barrier Energies"** by Mahananda Dasgupta, Australian National University, Canberra. 3:30 p.m., Bldg. 203, Conference Room R150.

Wednesday, Oct. 28

High Energy Physics Division Seminar: **"FEL-Based Fourth-Generation X-ray Source"** by Yanglai Cho, (APS). 11 a.m., Bldg. 362, Conference Room F108.

Intense Pulsed Neutron Source Division Seminar: **"Particles Dispersions in Liquid Crystals: Rheology, Structure, and Dynamic Interactions"** by David A. Hill, Department of Chemical Engineering, University of Notre Dame du Lac, Ind. 1:30 p.m., Bldg. 360, Conference Room A224.

Thursday, Oct. 29

High Energy Physics Division Theoretical Physics Seminar: **"Matter-Messenger Interactions in Gauge-Mediated SUSY Models and the Low Energy Consequences"** by Tao Han, University of Wisconsin, Madison. 2 p.m., Bldg. 362, Conference Room E188.

Friday, Oct. 30

Materials Science Division Seminar: **"A New Electrochemical Protection Technique and Case Histories"** by Mark C. Petri, Sargent and Lundy, Chicago, Ill. 11 a.m., Bldg. 212, Conference Room A157.

Retiree's Luncheon Seminar: **"Ceramicrete – A Novel Room-Temperature-Setting Ceramic for Radioactive Waste Stabilization"** by Arun Wagh, (ET). 12:30 p.m., Bldg. 212, Conference Room A157.

Monday, Nov. 2

Chemistry Division Monday Morning Seminar: **"Pentafluorothioalkylsulfonates: Promising New Components for Molecular Metals and Superconductors"** by John Schlueter, (CHM). 11 a.m., Bldg. 200 Auditorium.

Additional seminars appear on the Argonne News World Wide Web site: <http://www.anl.gov/news.html>

TIAA plans conference on finances

Human Resources will host a TIAA-CREF satellite teleconference on "Reaching Your Financial Goals: Tips from America's Experts" at Argonne-East on Wednesday, Oct. 28.

This teleconference will be held from 1 p.m. to 2:30 p.m. in the Building 203 Auditorium.

In this live national teleconference, a panel of experts will answer questions from the national audience and outline basic principles that can help anyone make sound financial decisions.

Panelists include Jane Bryant Quinn, columnist and author of "Making the Most of Your Money"; Peter L. Bernstein, noted economist and author of "Against the Gods: The Remarkable Story of Risk"; and Elissa Buie, president-elect of the Institute of Certified Financial Planners.

For more information, contact TIAA's Pam Foster at 1-800-842-2733, ext. 1226, or visit TIAA's Web site at <http://www.tiaa-cref.org/telecon>.

Emergency exercise to be held at Bldg. 40

Argonne-East emergency vehicles will be involved in an emergency preparedness exercise at Building 40 on the mornings of Wednesday and Thursday, Oct. 28 - 29.

The exercise is part of a training course for Energy Department emergency preparedness employees conducted by the DIS and EA Divisions.

Several indoor locations around the lab will also be involved in the emergency exercises. For more information, call Bill Gasper (EA) at ext. 2-4878.

Check
Argonne
News
Extra
for
late-
breaking
news
<http://www.anl.gov/news.html>



Classified Ads

MISCELLANEOUS

BICYCLE — 16" Rallye girl's bike, very good condition. \$25. Jim Byrnes, (815) 485-0328.

MISCELLANEOUS — Power Wheels Ninja quad racer, terrific condition. \$75. 1987 Suzuki DR 200 dirt bike, can be made street legal, great condition. \$800. Jim Byrnes, (815) 485-0328.

BOAT — 1990 Sea Ray, 18.5', I/O, 4.3 liter, V6, open bow, gauges, AM/FM, mint condition. \$12,000. Robert Sommer, (630) 739-4099.

FUR JACKET — Beige & white rabbit fur jacket w/ beige leather belt, medium length, size medium, only worn once. Best offer. Tami Bohnen, (708) 425-5941.

MISCELLANEOUS — Creamstone textured finish table lamp. \$35. Sealy proper firm IV mattress & box spring, double bed, one year old, excellent condition. \$300. Sears Coldspot chest freezer, 6 cu. ft. \$50. Paul Blickhahn, (630) 257-0654 – after 6 p.m.

MISCELLANEOUS — Bed ruffle, king size, new, Ralph Lauren Rosehill pattern. \$15. Beanies: Goldie. \$25. Twigs. \$12. Spike. \$5. 2 Pugsley. \$5/each. Martha Teitlus, (708) 233-2654.

VACUUM CLEANER — Hoover Futura, 7.6 amps. \$30. Gianfranco Preosti, (847) 537-4119.

MISCELLANEOUS — Dining room table, 5 chairs, china cabinet & hutch, good condition. \$250. 19 cu. ft., GE, side-by-side refrigerator. \$199. 60" x 30" executive desk, good condition. \$99. TV entertainment center. \$39. Om Singh, (630) 427-1834.

MISCELLANEOUS — Zenith stereo console. \$50. Twin headboard. \$5. King size sheet set. \$5. Sleeper/sofa, queen size. \$100. Basketball hoop, headboard, pole (unassembled). \$35. Sharp TV. \$100. 1.5 cu. ft. microwave. \$40. Laurie Scheiblein, (630) 427-1567.

ENCYCLOPEDIA BRITANNICA — Vintage 1973-1974, 19-volume Macropedia, 10-volume Micropedia, Annals of America, plus year books. \$150. Bruce Stejskal, (815) 436-2773.

SNOW BLOWER — 8 HP, Tecumseh engine, 24" path, 2-stage brute, 5 forward speeds, 2 reverse, needs carburetor work, otherwise in good running condition. \$75 o.b.o. Joseph Herceg, (630) 420-2916.

BEDROOM SET — 9-drawer dresser w/oak-framed mirror, 2 tall cabinets w/drawers, light bridge, mirrors & blanket chest, queen Sealy posturepedic mattress & frame. \$1,000 o.b.o. Kathy O'Brien, (708) 226-1740.

Classified ad request forms are available in stockrooms, at the Office of Public Affairs in Building 201, and at Argonne-West's Building 752, Room D109. The old half-sheet forms are acceptable, but note that the deadline is incorrect. Deadline for classified ads is **5 p.m. Monday**.

Requests can be submitted by fax to ext. 2-5274, or by inter-office mail to Evie Fagan, Building 201, Room 2U-09 (OPA-201). A drop-off box is located at the *Argonne News* office, Building 201, room 2Q-02 and at 2U-09.

Request forms must be signed and must include a home phone number. Ads cannot be accepted by phone or electronic mail. Please limit ads to 25 words; longer ads may be edited. Housing listed for sale or rent is available without regard to race, creed, color or national origin.

Argonne-West employees are welcome to submit classified ads to *Argonne News*. Request forms are available at the office of Argonne-West Correspondent Gaylene Flores, Building 752. When completed, fax the request form to the *Argonne News* office at (630) 252-5274.

CHRISTMAS TREE — Mountain King, 6.5' tall. \$25 o.b.o. Rose Lee Pausche, (630) 739-0126.

WATER BED — Queen size, soft-side water bed, new mattress, side rails & heater, custom wood pedestal. \$100. David Wallis, (630) 778-0448.

EXERCISE MACHINE — TrimLine, manual, never used, collapses for easy storage. \$35. Penny Oldham, (630) 257-2743.

PATIO SET — Hunter green & white, 2 years old, table & 4 chairs, glider, lounge, 2 swivel chairs, umbrella, all w/matching cushions. \$350. Mike Bosek, (815) 838-5638.

DRYER — Montgomery Ward heavy duty clothes dryer, excellent condition. \$150. Mike Bosek, (815) 838-5638.

BEANIE BABIES — Erin the green bear w/White Shamrock. \$35. Snort the Bull. \$12. Mary Popper, (312) 504-0678.

COMPUTERS — Pentium 133, 540 meg hard drive, 16 meg ram, 15" SVGA monitor, Win95, Office 95, modem, CD-ROM & sound card. \$450. Compaq 486/2S, 12 meg ram, 340 meg hard drive, 14.4 modem/Ethernet, Win95. \$300. Elsie Brown, (630) 910-4801.

AUTOMOBILES

1987 MAZDA — 626 LX, 4-door, gray, 5-speed, fully equipped, excellent condition, no rust, new brakes. \$1,700 o.b.o. Roy Cuenca, (815) 886-1172.

1996 PLYMOUTH — Neon, 4-door sedan, AC, AM/FM stereo w/cassette, 3-speed, AT, 31K miles. \$7,500 o.b.o. John Kennedy, (630) 852-4415.

1992 MERCURY — Sable LS, 81.5K miles, AT, power everything including drivers seat, digital dash, moon roof. \$1,000 below retail. \$5,000. Sherry Strahla, (630) 972-0089.

1985 SAAB — 900, 4-door, 5-speed. \$1,250. Gerald Reedy, (815) 935-0318.

1990 NISSAN — 240 SX, maroon, black interior, high miles, runs excellent, 5-speed, manual transmission. \$1,900. John Pace, (708) 596-8123.

HOUSING

LOT/SALE — Lake of the Ozarks. \$17,500. Todd Trotter, (630) 261-9750.

HOUSE/SALE — 8315 Helen Court, Downers Grove, IL., 10 minutes from lab., 2-story, 3,250 sq. ft., 3 bedrooms, 2 baths on second floor, kitchen w/dinette, family room, formal dining room, living room, bath on main floor, finished basement. \$244,900. John Hansen, (208) 523-4445.

HOUSE/RENT — Ranch, 3 bedrooms, 1 bath, 1-car garage, fireplace, new 6-panel pine bedroom doors w/more upgrades throughout, Wheaton schools, swimming pool, Jacuzzi, pool table & more, easy access to I-88 & shopping. \$1,175/month + first months rent & security deposit. Thomas Meier, (630) 393-3688.

TIMESHARE/SALE — Austria. \$6,500 & exchangeable. Todd Trotter, (630) 261-9750.

HOUSE/SALE — 3 bedrooms, 1.5 baths, raised ranch, living room, dining room, eat-in kitchen, large family room, laundry room & deck, 2.5 + garage, totally remodeled inside & out, must see, 15 minutes from lab. Fred Onesto, (630) 852-1614.

HOUSE/LEASE — Brick range, 3 bedrooms, 2 baths, furnished, includes utilities, excellent location, McAllen, Texas, available 5-6 month lease. \$1,200/month. B. Thompson, (815) 436-2838.

TOWNHOUSE/RENT — Texas golf retreat townhouse, McAllen, Texas, 18th green, 2 bedrooms, 2 baths, fully furnished, available Oct. 1 to Jan. 31, 1998, minimum 60 days, includes utilities. \$925/month. B. Thompson, (815) 436-2838.

HOUSE/SHARE — Private bath, all utilities included, 5 minutes from lab., female preferred, occupancy Dec. 1. Rose Lee Pausche, (630) 739-0126.

HOUSE/SALE — Very well kept 3-bedroom home, Lemont. \$174,900. Maria Addison, (630) 257-0092 or <http://www.cbhonig-bell.com/homesrch.htm>.

CONDO/SALE — Large, attractive, air-conditioned one-bedroom condo w/balcony & garage, Woodridge, laundry facilities in building, appliances stay. \$55,000. Melissa Bebej, (630) 910-8759.

HOUSE/SALE — Naperville, 203 school district, 2 story, 4 bedrooms, 2.5 baths, 2,000 sq. ft., large lot, 1 block to grade school. \$174,900. Mohan Ramanathan, (630) 961-5596.

ROOM/RENT — Large house to share w/male, bedroom, bath, garage, 7 miles southeast of Argonne, Homer Township. \$400 plus shared utilities & phone. George Lange, (708) 301-5839.

FOUND

PIN — Mom pin, found in Argonne post office parking lot on Oct. 12. Stella Lavalais, 2-2950.

WANTED

TELEVISION — Color, reasonably priced, good working condition. Subhendu Ghosh, (630) 960-2889.

10 easy steps save energy

As National Energy Awareness Month draws to a close, Argonne's Plant Facilities and Services Division urges employees to save energy with these 10 simple actions:

■ Recycle soda cans. Each recycled can saves enough energy to power a personal computer for five hours.

■ Turn off lights when leaving a room.

■ Turn off idle office equipment.

■ Buy products with recycled content.

■ Look for the "Energy Star" label when buying computers and office equipment.

■ Lower the setting on water heaters to 115 degrees.

■ Use compact fluorescent torchiere lamps.

■ Buy programmable thermostats with automatic setbacks, which can lower energy bills by 10 percent.

■ Bring a ceramic mug to work, conserving the energy it takes to make paper cups.

■ Make double-sided copies whenever possible.